PROJECT TITLE : CIGARETTE DEVELOPMENT 4

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421 HILTON ULTRA

Objective

To extend the HILTON PE family by two cigarettes having the following smoke yields :
Tar : 3 mg/cig. and 4 mg/cig.
SN : 0.3 mg/cig. and 0.4 mg/cig.

Summary

On the basis of the specifications of the HILTON ULTRA cigarette, produced in the USA, a first series of prototypes was produced.

Description of samples and results

Two series of six prototypes were produced with the objective to reach the analytical objectives.
Prototypes 3 P and 5 P satisfied the objective of 3 mg tar and prototypes 7 P and 8 P that of 4 mg tar.

Prototype		3 P	5 P	7 P	8 P
TAR	mg/cig.	3.0	3.1	4.1	3.7
SN	mg/cig.	0.24	0.25	0.32	0.32
CO	mg/cig.	7.4	6.6	7.7	6.4
NO	mg/cig.	0.13	0.12	0.14	0.14
Puff count		10.8	10.8	10.8	9.3
Dilution	%	63	64	65	52
Cigarette RTD	mm H_2O	111	103	104	117
Filter RTD	mm H_2O	116	110	113	107
Tipping paper		6 M.O.15.4.5		4 M.O.15.4.5	
Cigarette paper		WP 60	Ecusta 708	Mauduit 110-6EP	Mauduit 120-8
Filter		Single 2.5 / 48'000 X / 100 K			
Compresssibility	mm	2.3	2.5	2.6	2.7

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Comments

The compressibility of the first two series was too high. A reduction in tobacco weight would improve the combustion and give a better impact per puff. Taste evaluation showed that the Mauduit 110-6 EP (7 P) cigarette paper is the most preferable.

Follow-up

New prototypes will be produced with different tobacco weights. This will be done in order to improve prototype 7 P and to have a cigarette with 4 mg tar which gives full taste satisfaction.

413 PALINKA

Objective

To produce the MPK brand in Hungary.

Summary

Following the taste differences of the first trial cigarettes produced with the Hungarian filters, three new filters were produced by Intertaba.

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Source: https://www.industrydocuments.ucsf.edu/docs/zkhk0000

Description of samples and results

Prototype No	1 P	2 P	3 P	4 P	5 P	6 P
Blend	A	A	A	B	B	B
Filter version	I	II	III	I	II	III
TAR mg/cig.	14.8	14.7	16.0	16.0	16.0	17.0
SN mg/cig.	1.0	0.9	0.95	1.0	1.1	1.1
Puff count	9.3	9.2	9.2	9.8	9.9	9.8
Filter RTD mm H_2O	76	75	75	76	75	74
Cig. RTD mm H_2O	118	113	115	119	121	127
TA %	1.16	----	----	1.32	----	----
RS %	12.8	----	----	12.0	----	----
NO_3-N %	0.10	----	----	0.12	----	----
NH_3-N %	0.12	----	----	0.13	----	----
Filter eff. %	56	49	43	----	----	----

Comments

The different filters (versions I, II and III) are filters with different concentrations of additives for versions I and II, and version III has a less active additive.

Follow-up

On the basis of the taste evaluation of prototypes 1 P to 6 P, a decision will be taken concerning the final specifications of this project.
A product test will be organized in Hungary with the chosen version against the MAK 05 produced at Serrières.

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